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This command applies to the Cisco AS5850 universal **gateway** only. ..... from the arriving data stream it is replaced by an **idle packet** of the same payload ...

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A set of commands that control a **modem** or alter its characteristics. .... Cellular Digital

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The cable **modem** of claim 33 wherein the **data packets** are modulated at a .....

However, network **gateway VoIP** operations also run synchronously to the ...

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On detection of the fax or **modem** tone on an established **VoIP** call, the gateways switch .....

Because **Suspend** and **Resume** support already exists for H.323, ...

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### Cross-Platform Release Notes for Cisco IOS Release 12.3, Part 6 ...

Conditions: This symptom can happen on a Cisco IOS **VoIP gateway** that functions under stress .....

Symptoms: A Cisco AS5850 does not fragment **data packets** ...

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can hold a maximum of 1000 **packets** or 100kByte of **data**. The sniffer is controlled via the .....

**modem** bypass, the SIP **gateway** uses a **VoIP** profile ...

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impairment mitigation and **regeneration** = atténuation des dégradations et .....

**packet loss rate** = taux de perte de paquets (J.160); Packetable **VoIP** ...

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detect for outbound **data** before the **modem** dials the ISP. ...

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**idle** guard timer = temporisation de garde sur B libre ; ...  
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**packet**-processing engine and real-time **data** compression. ..... Each TN2302 Media  
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with a **Gateway**. Such functions include **packet** loss concealment, jitter buffer  
management, transcoding, and so on. The **VoIP** Engine of the G700 motherboard ...  
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McD's is virtually **idle**. The quality shops are growing like weeds. ..... I have a ThinkPad  
T21 running 2.4.19 that I **suspend** and **resume** twice a day and my ...  
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Processor controls the flow of **data** through the **Gateway**. The 860T processor communicates. with other processors in the system – the **VoIP** Engine processor, ...

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It uses a wireless cellular **modem** to communicate its location and receive ..... The XT75 can send **data packets** at up to three times the speed of ISDN. ...

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Imagine a high speed (adsl/cable) **modem**, integrated web server, VoIP, ..... DAT Couldn't convert Microsoft Mail Message **Data** item to text at a **gateway** ...

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a **data packet** or voice signal, to get from a network origin point to a destination ..... kept useful during normal operation or kept **idle** as a standby. ...

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 Upkar Varshney, Andy Snow, Matt McGivern, Christi Howard  
 January 2002 **Communications of the ACM**, Volume 45 Issue 1

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Power line communication (PLC) has become an important network access technology to conveniently and effectively provide various useful services such as remote meter reading, broadband Internet access, and home networking services. As the deployment and use of PLC networks increase, it is essential that we need to be able to configure, monitor, and control the PLC network resources. In this paper, we present an overview of PLC network technology and describe a trial PLC network and its deployment ...

**3 Queue Focus: Voice Over IP: Not Your Father's PBX?**

 James E. Coffman  
 September 2004 **Queue**, Volume 2 Issue 6

**Publisher:** ACM Press

 Full text available: [pdf\(947.89 KB\)](#)

 Additional Information: [full citation](#), [index terms](#)
[html\(29.19 KB\)](#)
**4 Papers: Voice over IP performance monitoring**

 R. G. Cole, J. H. Rosenbluth  
 April 2001 **ACM SIGCOMM Computer Communication Review**, Volume 31 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(1.35 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We describe a method for monitoring Voice over IP (VoIP) applications based upon a reduction of the ITU-T's E-Model to transport level, measurable quantities. In the process, 1) we identify the relevant transport level quantities, 2) we discuss the tradeoffs between placing the monitors within the VoIP gateways versus placement of the monitors within the transport path, and 3) we identify several areas where further work and consensus within the industry are required. We discover that the releva ...

**5 Curricular response to the real time data and VoIP tidal wave** 

Bruce Hartpence

June 2007 **Journal of Computing Sciences in Colleges**, Volume 22 Issue 6

**Publisher:** Consortium for Computing Sciences in Colleges

Full text available:  pdf(180.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The migration of almost all forms of communication to Internet Protocol (IP) based applications presents an imminent and significant challenge to educators in both traditional telecommunications and contemporary networking programs. Previously existing models, standards and curricula will quickly be out-dated if they aren't already. The rapid rate of change of communication methodologies requires that educational units react quickly to provide lecture content and lab based materials to adequa ...

**6 Broadband wireless communications for disaster relief: A project of Virginia Tech's Center for Wireless Telecommunications (CWT) Science Applications International Corporation** 

Charles Bostian, Scott Midkiff, Laurence W. Bill Carstensen, George E. Morgan, Michael Kurgan, Rick Klobuchar, Larry Brandt

May 2002 **Proceedings of the 2002 annual national conference on Digital government research dg.o '02**

**Publisher:** Digital Government Research Center

Full text available:  pdf(2.44 MB) Additional Information: [full citation](#)

**7 New topics: Low-cost communication for rural internet kiosks using mechanical backhaul** 

 A. Seth, D. Kroeker, M. Zaharia, S. Guo, S. Keshav

September 2006 **Proceedings of the 12th annual international conference on Mobile computing and networking MobiCom '06**

**Publisher:** ACM Press

Full text available:  pdf(733.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Rural kiosks in developing countries provide a variety of services such as birth, marriage, and death certificates, electricity bill collection, land records, email services, and consulting on medical and agricultural problems. Fundamental to a kiosk's operation is its connection to the Internet. Network connectivity today is primarily provided by dialup telephone, although Very Small Aperture Terminals (VSAT) or long-distance wireless links are also being deployed. These solutions tend to be bo ...

**Keywords:** delay tolerant networks, low cost, mechanical back-haul, rural communication, system design

**8 T1-A: next generation mobile networks symposium: Titan: a new paradigm in wireless internet access based on community collaboration** 

 Bjorn Landfeldt, Jahan Hassan, Albert Y. Zomaya, Suparerk Manitpornsut, Riky Subrata  
July 2006 **Proceedings of the 2006 international conference on Wireless  
communications and mobile computing IWCNC '06**

**Publisher:** ACM Press

Full text available:  pdf(206.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper introduces project TITAN, which investigates an alternative construct of residential broadband access. The aim of the project is to increase the utilisation of deployed broadband capacity such as xDSL and cable modem connections. In order to achieve this, we propose a Collaborative Community Network (CCN) where residential broadband users contribute their *spare* broadband capacity to other users over a wireless medium, to form a collaborative community wireless Internet access n ...

**Keywords:** DSL, WLAN, access network, wireless internet, wireless networks

**9 NetNews: satellites: the new bandwidth-busters?** 

 Dennis Fowler  
November 1998 **netWorker**, Volume 2 Issue 5

**Publisher:** ACM Press

Full text available:  pdf(234.01 KB) Additional Information: [full citation](#), [index terms](#)

**10 Characterization by measurement of a CDMA 1x EVDO network** 

 Mark Claypool, Robert Kinicki, William Lee, Mingzhe Li, Gregory Ratner  
August 2006 **Proceedings of the 2nd annual international workshop on Wireless  
internet WICON '06**

**Publisher:** ACM Press

Full text available:  pdf(257.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Cellular networks are increasingly carrying Internet traffic for Email and Web browsers, VoIP and online games and streaming video. While there have been some studies characterizing the throughput of cellular data networks, there has been few measurement studies focusing on the latest Evolution-Data Optimized (EVDO) cellular protocol, considering characteristics for throughput-sensitive, latency-sensitive and streaming applications. This paper provides a measurement-based characterization of ...

**Keywords:** EVDO, measurement, wireless

**11 Algorithms and methodologies for new architectures: FlexPath NP: a network** 

 processor concept with application-driven flexible processing paths

Rainer Ohlendorf, Andreas Herkersdorf, Thomas Wild  
September 2005 **Proceedings of the 3rd IEEE/ACM/IFIP international conference on  
Hardware/software codesign and system synthesis CODES+ISSS  
'05 , Proceedings of the 3rd IEEE/ACM/IFIP international conference  
on Hardware/software codesign and system synthesis CODES+ISSS  
'05**

**Publisher:** ACM Press, IEEE Computer Society

Full text available:  pdf(261.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
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In this paper, we present a new architectural concept for network processors called FlexPath NP. The central idea behind FlexPath NP is to systematically map network processor (NP) application sub-functions onto both SW programmable processor (CPU) resources and (re-)configurable HW building blocks, such that different packet flows are

forwarded via different, optimized processing paths through the NP. Packets with well understood, relatively simple processing requirements may even bypass the ce ...

**Keywords:** IP networking, application-specific architectures, dynamically reconfigurable processors, hardware accelerators, network processors

12 Performance monitoring: Design and analysis of large-scale wireless communications networks □

 Kenneth Y. Jo, Syed R. Ali

October 2006 **Proceedings of the ACM international workshop on Performance monitoring, measurement, and evaluation of heterogeneous wireless and wired networks PM2HW2N '06**

**Publisher:** ACM Press

Full text available: [pdf\(501.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents fundamental design and performance assessment methodologies for modern large-scale enterprise wireless communications networks comprised of many system components. Large-scale wireless networks are needed to serve mobile users in a region and to satisfy their intra- and inter-region communications requirements by adopting network-on-the-move (NOTM) concepts. For global access, the NOTM systems will connect to wireless and terrestrial networks and will also support communicati ...

**Keywords:** mobile ad-hoc networks, wireless networks

13 Wireless broadband services and network management system in KT □

Dong-Hyun Lee, Hwan-Joong Lee, Young-Woo Lee, Dong-Houn Shin

November 2006 **International Journal of Network Management**, Volume 16 Issue 6

**Publisher:** John Wiley & Sons, Inc.

Full text available: [pdf\(778.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As mobile devices such as laptops and PDAs are becoming widely available, customers' needs for portable Internet services are increasing. KT has been preparing to launch a WiBro (Mobile WiMax) service that is a high-speed, low-cost, wireless Internet service based on the IEEE 802.16e standard. WiBro Network Management System (WiBro-NMS) has also been developed for the integrated management of WiBro network elements such as ACR, L2 switch, RAS and repeater. Because there is no standard management ...

14 Wireless home networks: A review on wireless home network technologies □

 K. Vaxevanakis, Th. Zahariadis, N. Vogiatzis

April 2003 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 7 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(1.63 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Connecting residences to broadband access networks offers an unprecedented opportunity to extend the networking customer base beyond the sated corporate environment. Yet despite this promising prospect, the market is evolving very tenuously: on one hand, there are numerous industrial consortia and standardization bodies that continue their work on independent and often non-interoperable specifications for residential networks; on the other hand, while there are multiple home PCs and multimedi ...

15 Embedded perspective □

Rick Lehrbaum

August 2002 **Linux Journal**, Volume 2002 Issue 100

**Publisher:** Specialized Systems Consultants, Inc.

Full text available: [html\(11.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Where No Penguin Has Gone Before

16 Performance analysis: Direct IP-based mobile-to-mobile communications: first phase results

 S. E. Davies, S. Gardner

October 2006 **Proceedings of the ACM international workshop on Performance monitoring, measurement, and evaluation of heterogeneous wireless and wired networks PM2HW2N '06**

**Publisher:** ACM Press

Full text available: [pdf\(553.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The networking world is showing increasing interest in changing from circuit-based to a complete packet-based system. The change has been slow for many years but is now accelerating from the dated Tim-Division Multiplexed (TDM) narrowband networks to an IP-based broadband network system. This offers several key advantages, including, simpler up-grades, lower costs, and integrated support for a wide range of high-value voice, data, and video applications and services. Many factors have converged to ...

**Keywords:** 3G/UMTS, mobile IP-based, multi-network architecture

17 Reviewed articles: A clean slate 4D approach to network control and management

 Albert Greenberg, Gisli Hjalmysson, David A. Maltz, Andy Myers, Jennifer Rexford, Geoffrey Xie, Hong Yan, Jibin Zhan, Hui Zhang

October 2005 **ACM SIGCOMM Computer Communication Review**, Volume 35 Issue 5

**Publisher:** ACM Press

Full text available: [pdf\(313.74 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today's data networks are surprisingly fragile and difficult to manage. We argue that the root of these problems lies in the complexity of the control and management planes--the software and protocols coordinating network elements--and particularly the way the decision logic and the distributed-systems issues are inexorably intertwined. We advocate a complete refactoring of the functionality and propose three key principles--network-level objectives, network-wide views, and direct control--that ...

**Keywords:** control, network management, robustness

18 A decade of reconfigurable computing: a visionary retrospective

R. Hartenstein

March 2001 **Proceedings of the conference on Design, automation and test in Europe DATE '01**

**Publisher:** IEEE Press

Full text available: [pdf\(768.00 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 The Cutting Edge

Greg Herlein, Ed Okerson

September 1999 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available: [html\(16.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Voice-Over IP for Linux: Make your long-distance calls over the Internet using this new

technology for Linux.

20 [geek@home: Rationalizing a home terabyte server](#) 

 Mache Creeger  
September 2006 **Queue**, Volume 4 Issue 7

**Publisher:** ACM Press

Full text available:  [pdf\(84.48 KB\)](#)

 [htm\(9.54 KB\)](#)

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 Bjorn Landfeldt, Jahan Hassan, Albert Y. Zomaya, Suparerk Manitpornsut, Riky Subrata  
July 2006 **Proceedings of the 2006 international conference on Wireless communications and mobile computing IWCNC '06**

**Publisher:** ACM PressFull text available:  [pdf\(206.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper introduces project TITAN, which investigates an alternative construct of residential broadband access. The aim of the project is to increase the utilisation of deployed broadband capacity such as xDSL and cable modem connections. In order to achieve this, we propose a Collaborative Community Network (CCN) where residential broadband users contribute their *spare* broadband capacity to other users over a wireless medium, to form a collaborative community wireless Internet access n ...

**Keywords:** DSL, WLAN, access network, wireless internet, wireless networks

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 Robert Szewczyk, Alan Mainwaring, Joseph Polastre, John Anderson, David Culler  
 November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems SenSys '04**

**Publisher:** ACM PressFull text available:  [pdf\(1.22 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Habitat and environmental monitoring is a driving application for wireless sensor networks. We present an analysis of data from a second generation sensor networks deployed during the summer and autumn of 2003. During a 4 month deployment, these networks, consisting of 150 devices, produced unique datasets for both systems and biological analysis. This paper focuses on nodal and network performance, with an emphasis on lifetime, reliability, and the static and dynamic aspects of single an ...

**Keywords:** application analysis, habitat monitoring, implementation, long-lived systems, microclimate monitoring, network architecture, sensor networks

**2 IP-based protocols for mobile internetworking**

 John Ioannidis, Dan Duchamp, Gerald Q. Maguire  
 August 1991 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architecture & protocols SIGCOMM '91**, Volume 21 Issue 4

**Publisher:** ACM PressFull text available:  [pdf\(1.29 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**3 Protocol architectures: MMTP: multimedia multiplexing transport protocol**

 Luiz Magalhaes, Robin Kravets  
 April 2001 **ACM SIGCOMM Computer Communication Review**, Volume 31 Issue 2 supplement

**Publisher:** ACM PressFull text available:  [pdf\(2.08 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#)

Multimedia data has special requirements that are hard to be met on mobile hosts due to potentially low bandwidth and disruptions due to host mobility. Such limited communication capabilities of mobile hosts can be offset by the simultaneous use of multiple link layer technologies. MMTP is a member of a suite of protocols that share the

novel characteristic of aggregating bandwidth from multiple link-layer channels. The use of multiple channels to transport user data provides five key benefits: ...

**Keywords:** low bandwidth link, multimedia transport protocols, wireless communication

#### 4 Adding animated presentation agents to the interface



Thomas Rist, Elisabeth André, Jochen Müller

January 1997 **Proceedings of the 2nd international conference on Intelligent user interfaces IUI '97**

**Publisher:** ACM Press

Full text available: [pdf\(1.37 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



**Keywords:** animated user interface agents, automated multimedia authoring, presentation techniques for web applications

#### 5 Performance interactions between P-HTTP and TCP implementations



John Heidemann

April 1997 **ACM SIGCOMM Computer Communication Review**, Volume 27 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(750.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)



This document describes several performance problems resulting from interactions between implementations of persistent-HTTP (P-HTTP) and TCP. Two of these problems tie P-HTTP performance to TCP delayed-acknowledgments, thus adding up to 200ms to each P-HTTP transaction. A third results in multiple slow-starts per TCP connection. Unresolved, these problems result in P-HTTP transactions which are 14 times slower than standard HTTP and 20 times slower than potential P-HTTP over a 10 Mb/s Ethernet. ...

#### 6 Pen computing: a technology overview and a vision



André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(5.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)



This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

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Victor C. Zandy, Barton P. Miller  
 September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking MobiCom '02**

Publisher: ACM Press

Full text available:  [pdf\(272.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present two systems, reliable sockets (rocks) and reliable packets (racks), that provide transparent network connection mobility using only user- level mechanisms. Each system can detect a connection failure within seconds of its occurrence, preserve the endpoint of a failed connection in a suspended state for an arbitrary period of time, and automatically reconnect, even when one end of the connection changes IP address, with correct recovery of in-flight data. To allow rocks and racks to in ...

**Keywords:** network connection mobility**2 Object oriented simulation with SMALLTALK-80: a case study**

Jocelyn R. Drolet, Colin L. Moodie, Benoit Montreuil

December 1991 **Proceedings of the 23rd conference on Winter simulation WSC '91**

Publisher: IEEE Computer Society

Full text available:  [pdf\(917.90 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** SmallTalk, cell, modeling, object, simulation, virtual**3 Tutorial: Compiling concurrent languages for sequential processors**

Stephen A. Edwards  
 April 2003 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 8 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(771.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Embedded systems often include a traditional processor capable of executing sequential code, but both control and data-dominated tasks are often more naturally expressed

using one of the many domain-specific concurrent specification languages. This article surveys a variety of techniques for translating these concurrent specifications into sequential code. The techniques address compiling a wide variety of languages, ranging from dataflow to Petri nets. Each uses a different method, to some degr ...

**Keywords:** Compilation, Esterel, Lustre, Petri nets, Verilog, code generation, communication, concurrency, dataflow, discrete-event, partial evaluation, sequential

**4 The J-machine multicomputer: an architectural evaluation**



Michael D. Noakes, Deborah A. Wallach, William J. Dally

May 1993 **ACM SIGARCH Computer Architecture News , Proceedings of the 20th annual international symposium on Computer architecture ISCA '93**, Volume 21 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(1.33 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The MIT J-Machine multicomputer has been constructed to study the role of a set of primitive mechanisms in providing efficient support for parallel computing. Each J-Machine node consists of an integrated multicomputer component, the Message-Driven Processor (MDP), and 1 MByte of DRAM. The MDP provides mechanisms to support efficient communication, synchronization, and naming. A 512 node J-Machine is operational and is due to be expanded to 1024 nodes in March 1993. In this paper we discuss ...

**5 Internet based audiovisual communication tools used in a joint engineering design class at the University of Alabama in Huntsville and the Ecole Superieure et de Construction Automobile (ESTACA) in Paris, France**

Robert L. Middleton, Robert A. Frederick

November 1998 **Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '98**

**Publisher:** IEEE Computer Society

Full text available:  [html\(54.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The University of Alabama in Huntsville, College of Engineering, in collaboration with the Colleges of Liberal Arts and Administrative Sciences, has for the last several years offered an annual senior level student design class using the Integrated Product Team approach. This year the participation in the class was expanded to include Engineering students from ESTACA in Paris, France. A small, but highly regarded, high school computer class in Linden, Alabama also participated in portions of the ...

**Keywords:** audiovisual, distant dducation, internet communication

**6 Using predictive prefetching to improve World Wide Web latency**



Venkata N. Padmanabhan, Jeffrey C. Mogul

July 1996 **ACM SIGCOMM Computer Communication Review**, Volume 26 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(1.13 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The long-term success of the World Wide Web depends on fast response time. People use the Web to access information from remote sites, but do not like to wait long for their results. The latency of retrieving a Web document depends on several factors such as the network bandwidth, propagation time and the speed of the server and client computers. Although several proposals have been made for reducing this latency, it is difficult to push it to the point where it becomes insignificant. This motiva ...

7 [An analysis of dag-consistent distributed shared-memory algorithms](#) 

 Robert D. Blumofe, Matteo Frigo, Christopher F. Joerg, Charles E. Leiserson, Keith H. Randall  
June 1996 **Proceedings of the eighth annual ACM symposium on Parallel algorithms and architectures SPAA '96**

Publisher: ACM Press

Full text available:  pdf(1.76 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 [SimJAVA—a framework for modeling queueing networks in Java](#) 

 Wolfgang Kreutzer, Jane Hopkins, Marcel van Mierlo  
December 1997 **Proceedings of the 29th conference on Winter simulation WSC '97**

Publisher: ACM Press, IEEE Computer Society

Full text available:  pdf(674.89 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 [The impact of operating system scheduling policies and synchronization methods of performance of parallel applications](#) 

 Anoop Gupta, Andrew Tucker, Shigeru Urushibara  
April 1991 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1991 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '91**, Volume 19 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.91 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Shared-memory multiprocessors are frequently used as compute servers with multiple parallel applications executing at the same time. In such environments, the efficiency of a parallel application can be significantly affected by the operating system scheduling policy. In this paper, we use detailed simulation studies to evaluate the performance of several different scheduling strategies. These include regular priority scheduling, coscheduling or gang scheduling, process control with processor pa ...

10 [SIMSCRIPT II.5 and simanimation, a tutorial](#) 

 Edward C. Russell  
December 1987 **Proceedings of the 19th conference on Winter simulation WSC '87**

Publisher: ACM Press

Full text available:  pdf(931.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The SIMSCRIPT 11.5 programming language is described, and a complete simulation example is presented.

11 [CONS should not CONS its arguments, or, a lazy alloc is a smart alloc](#) 

 Henry G. Baker  
March 1992 **ACM SIGPLAN Notices**, Volume 27 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.52 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

*Lazy allocation* is a model for allocating objects on the execution stack of a high-level language which does not create dangling references. Our model provides safe transportation into the heap for objects that may survive the deallocation of the surrounding stack frame. Space for objects that do not survive the deallocation of the surrounding stack frame is reclaimed without additional effort when the stack is popped. Lazy allocation thus performs a first-level garbage collection, and if ...

**12 A VLIW architecture for a trace scheduling compiler**

Robert P. Colwell, Robert P. Nix, John J. O'Donnell, David B. Papworth, Paul K. Rodman  
 October 1987 **ACM SIGARCH Computer Architecture News , ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Proceedings of the second international conference on Architectural support for programming languages and operating systems ASPLOS-II**, Volume 15 , 22 , 21 Issue 5 , 10 , 4

**Publisher:** IEEE Computer Society Press, ACM Press

Full text available:  [pdf\(1.59 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Very Long Instruction Word (VLIW) architectures were promised to deliver far more than the factor of two or three that current architectures achieve from overlapped execution. Using a new type of compiler which compacts ordinary sequential code into long instruction words, a VLIW machine was expected to provide from ten to thirty times the performance of a more conventional machine built of the same implementation technology. Multiflow Computer, Inc., has now built a VLIW called the TRACE™< ...

**13 Effective use of wireless data communications**

Geoffrey Engerman, Lee Kearney

February 1998 **International Journal of Network Management**, Volume 8 Issue 1

**Publisher:** John Wiley & Sons, Inc.

Full text available:  [pdf\(134.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This article summarizes the various wireless data network technologies and describes the underlying data communication elements necessary for effective application deployment.  
 © 1998 John Wiley & Sons, Ltd.

**14 4.2BSD and 4.3BSD as examples of the UNIX system**

John S. Quarterman, Abraham Silberschatz, James L. Peterson  
 December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

**Publisher:** ACM Press

Full text available:  [pdf\(4.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper presents an in-depth examination of the 4.2 Berkeley Software Distribution, Virtual VAX-11 Version (4.2BSD), which is a version of the UNIX Time-Sharing System. There are notes throughout on 4.3BSD, the forthcoming system from the University of California at Berkeley. We trace the historical development of the UNIX system from its conception in 1969 until today, and describe the design principles that have guided this development. We then present the internal data structures and ...

**15 Cedar Fortran and other Vector and parallel Fortran dialects**

M. D. Guzzi, J. P. Hoe flinger, D. A. Padua, D. H. Lawrie

November 1988 **Proceedings of the 1988 ACM/IEEE conference on Supercomputing Supercomputing '88**

**Publisher:** IEEE Computer Society Press

Full text available:  [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The introduction of vector processors and multiprocessors punctuate the most dramatic changes in Fortran and its dialects. The emerging generation of supercomputers utilize both vector processing and multiprocessing simultaneously. The challenge is to provide language constructs and software tools that will allow the programmer to easily exploit the capabilities of the machine. This paper will outline the development of vector and multiprocessor language constructs in Fortran. Th ...

**16 Attacking passwords and bringing down the network: Misbehaving TCP receivers can**

◆ [cause internet-wide congestion collapse](#)  
Rob Sherwood, Bobby Bhattacharjee, Ryan Braud  
November 2005 **Proceedings of the 12th ACM conference on Computer and communications security CCS '05**  
Publisher: ACM Press  
Full text available: [!\[\]\(5c7d278cafc95e469a28c5619b31ce08\_img.jpg\) pdf\(258.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An *optimistic* acknowledgment (opt-ack) is an acknowledgment sent by a misbehaving client for a data segment that it has not received. Whereas previous work has focused on opt-ack as a means to greedily improve end-to-end performance, we study opt-ack exclusively as a denial of service attack. Specifically, an attacker sends optimistic acknowledgments to many victims in parallel, thereby amplifying its effective bandwidth by a factor of 30 million (worst case). Thus, even a relatively mode ...

**Keywords:** congestion control, distributed denial of service

17 [SIMSCRIPT II.5 and SIMGRAPHICS: a tutorial](#)  
◆ Edward C. Russell  
December 1988 **Proceedings of the 20th conference on Winter simulation WSC '88**  
Publisher: ACM Press  
Full text available: [!\[\]\(72976e70f239e97a672f31d00bc5f2ae\_img.jpg\) pdf\(856.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The SIMSCRIPT II.5 programming language is described, and a complete simulation example is presented.

18 [Towards transparent and efficient software distributed shared memory](#)  
◆ Daniel J. Scales, Kourosh Gharachorloo  
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5  
Publisher: ACM Press  
Full text available: [!\[\]\(a17c183d9d89761ac1cabaf291e5ef2e\_img.jpg\) pdf\(2.34 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 [Wireless protocols design: challenges and opportunities](#)  
◆ J. L. da Silva, M. Sgroi, F. De Bernardinis, S. F. Li, A. Sangiovanni-Vincentelli, J. Rabaey  
May 2000 **Proceedings of the eighth international workshop on Hardware/software codesign CODES '00**  
Publisher: ACM Press  
Full text available: [!\[\]\(0c9598167da18fe048e2ff3ed53aec39\_img.jpg\) pdf\(141.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Modern wireless communication systems require the deployment of increasingly complex protocols that satisfy tight requirements at low implementation cost, especially in terms of size and power consumption. Most protocol design methodologies currently in use are inadequate, either because they do not rely upon formal techniques and therefore do not guarantee correctness, or because they do not provide sufficient support for performance analysis and design exploration and therefore often lead ...

**Keywords:** case study, communication refinement, function/architecture co-design, wireless protocol design

20 [Power management for energy-aware communication systems](#)  
Curt Schurgers, Vijay Raghunathan, Mani B. Srivastava

August 2003 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 2 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(298.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

System-level power management has become a key technique to render modern wireless communication devices economically viable. Despite their relatively large impact on the system energy consumption, power management for radios has been limited to shutdown-based schemes, while processors have benefited from superior techniques based on dynamic voltage scaling (DVS). However, similar scaling approaches that trade-off energy versus performance are also available for radios. To utilize these in radio ...:

**Keywords:** Energy-efficient, adaptive, scaling, wireless communications

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Relevance scale

**21 Concurrent simulation with entity life modeling: an airport simulator using Ada**

Pen-Nan Lee, Ravinder R. Purumandla, William Nehman

December 1990 **Proceedings of the 22nd conference on Winter simulation WSC' 90****Publisher:** IEEE PressFull text available: [pdf\(692.11 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)
**22 Improved bounds for acyclic job shop scheduling (extended abstract)**

Uriel Feige, Christian Scheideler

May 1998 **Proceedings of the thirtieth annual ACM symposium on Theory of computing STOC '98****Publisher:** ACM PressFull text available: [pdf\(1.42 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
**23 Software synthesis for real-time information processing systems**

Filip Thoen, Marco Cornero, Gert Goossens, Hugo De Man

November 1995 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1995 workshop on Languages, compilers, & tools for real-time systems LCTES '95**, Volume 30 Issue 11**Publisher:** ACM PressFull text available: [pdf\(941.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software synthesis is a new approach which focuses on the support of embedded systems without the use of operating-systems. Compared to traditional design practices, a better utilization of the available time and hardware resources can be achieved with software synthesis, because the static information provided by the system specification is fully exploited and a application specific solution is automatically generated. In this paper on-going research on a software synthesis approach for real-tim ...

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